

US009409051B2

(12) United States Patent Kaleal, III et al.

(54) PERSONALIZED AVATAR RESPONSIVE TO USER PHYSICAL STATE AND CONTEXT

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(*) Notice: Subject to any disclaimer, the term of this

patent is extended or adjusted under 35

U.S.C. 154(b) by 0 days.

(21) Appl. No.: 14/593,603

(22) Filed: Jan. 9, 2015

(65) **Prior Publication Data**

US 2015/0126826 A1 May 7, 2015

Related U.S. Application Data

(63) Continuation of application No. 14/518,808, filed on Oct. 20, 2014, now Pat. No. 9,199,122, which is a continuation-in-part of application No. 14/049,981, filed on Oct. 9, 2013, now Pat. No. 9,198,622, which is

(Continued)

(51) **Int. Cl.**

A63B 24/00 (2006.01) **A61B 5/00** (2006.01)

(Continued)

(52) U.S. Cl.

.

(58) Field of Classification Search CPC .. A63B 24/00; A61B 5/14546; A61B 5/4845; (10) Patent No.:

US 9,409,051 B2

(45) **Date of Patent:**

Aug. 9, 2016

A61B 5/4866; A61B 5/4872; A61B 5/14532; A61B 5/741; A61B 5/1118; A61B 5/1123; A61B 5/0205; A61B 5/7282; A61B 5/4833; A61B 5/02055; A61B 5/0077 See application file for complete search history.

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(57) ABSTRACT

Systems and methods are disclosed that facilitate providing guidance to a user during performance of a program or routine using a personalized avatar. In an aspect, a system includes a reception component configured to receive physiological and movement information about a user during performance of a routine or program, and an analysis component configured to analyze the physiological and movement information based on reference physiological and movement metrics for the routine or the program to determine whether, how and to what degree the user deviates from requirements of the routine or the program. The system further includes a reaction component configured to determine a response for an avatar displayed to the user based on a determination regarding whether, how and to what degree the user deviates from the requirements of the routine or the program, and an avatar control component configured to initiate manifestation of the response by the avatar as displayed to the user.

24 Claims, 18 Drawing Sheets

